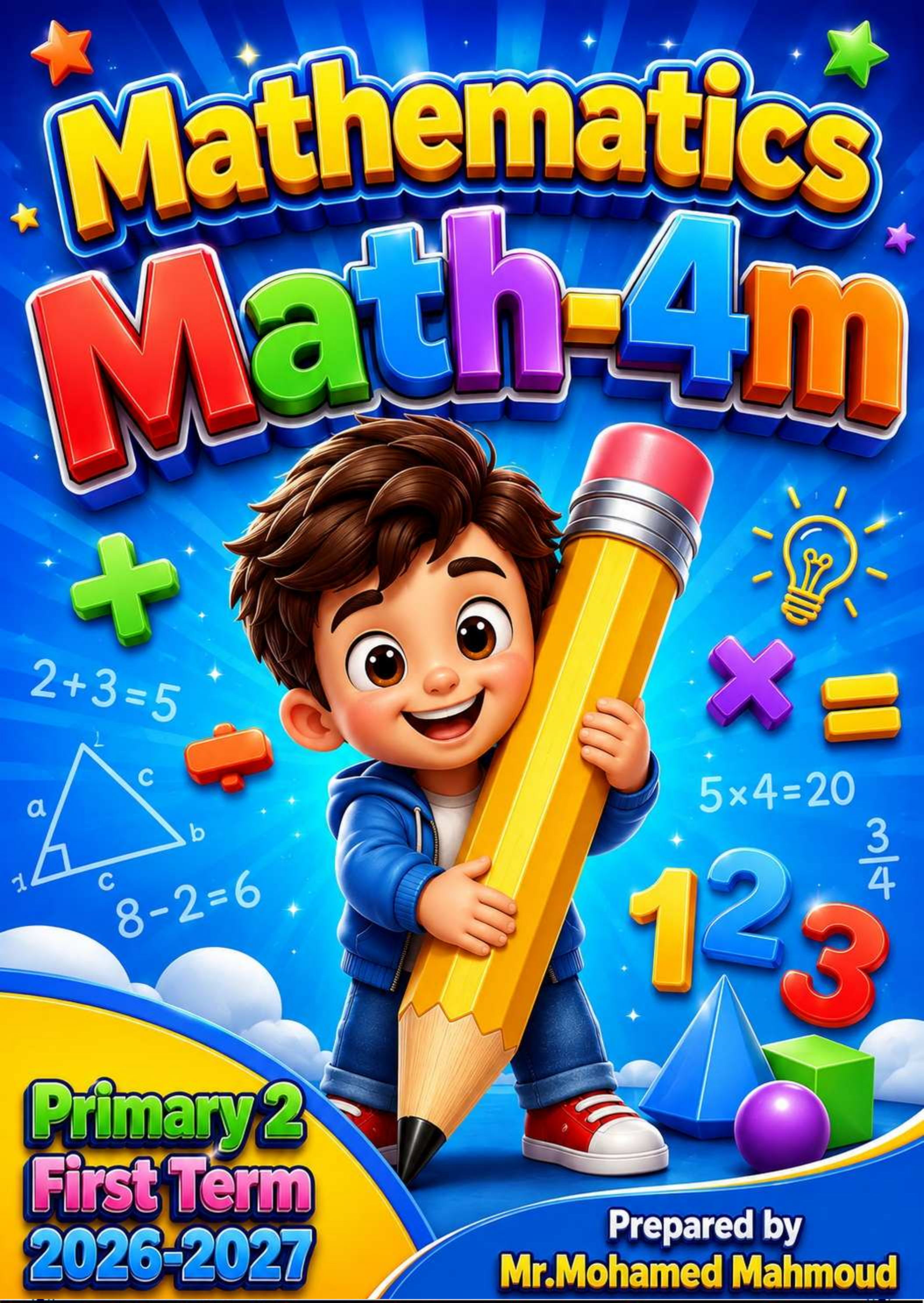
Mathematics

Math-4m



Primary 2
First Term
2026-2027

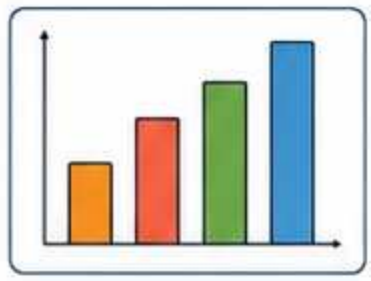
Prepared by
Mr.Mohamed Mahmoud

D.M.RAZK
موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 1

Graphs and Tables

Lesson 1 & 2



Graphs and Tables

How to Read Graphs and Tables

Let's Learn

By the end of this lesson, I will be able to:

- Organize data in simple tables.
- Read data from pictographs.
- Read data from tables.
- Compare numbers using data.
- Solve simple word problems related to graphs and tables.

Key Idea

Graphs and tables help us organize information so that we can understand it easily and make a comparison.

Example The picture shows the favorite play things of the students in a class.

Making a Pictograph

Favorite Toy	Number of Students ○				
	○	○	○	○	○
	○	○			
	○	○	○	○	
	○	○	○	○	○
	○	○	○	○	

○ means one student

How to Read a Pictograph

1. Look at the key: ○ means "one student".
2. Draw a column for each play thing.
   Write the play things at the bottom.

3. Count the circles in each column.
4. Check which play thing has the most circles.
   That is the most favorite.
5. Check which play thing has the fewest circles.
   That is the least favorite.
6. Compare two play things.
   Count and check which is more or less.

⭐ Make sure to count the circles carefully.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 1

Graphs and Tables

Lesson 1 & 2

Reading a Pictograph

We use a key to show what each picture stands for.

Key: = 1 student

Play Thing	Number of Students	
Bicycle		5
Car		3
Ball		6
Kite		4
Doll		2

How to Read:

- Look at the key. One picture ( ) means 1 student.
- Count the pictures in each row.
- Write the total number of students in the last column.

Think!

Which play thing is the most favorite?

_____

Which play thing is the least favorite?

_____

Let's Learn More

- The play thing with the most pictures is the most favorite.
- The play thing with the least pictures is the least favorite.

Reading a Table

A table shows numbers clearly in rows and columns.

Play Thing	Number of Students
Bicycle	5
Car	3
Ball	6
Kite	4
Doll	2

How to Read:

- Look at the heading of each column.
- The first column shows the play things.
- The second column shows the number of students.
- Read the number in each row.

Compare

The number of students who like Ball [6] is more than Car [3].

The number of students who like Doll [2] is less than Kite [4].

The number of students who like Bicycle [5] is more than Doll [2].

Key Words

Pictograph: A graph that uses pictures to show data.

Table: A way to show data in rows and columns.

Key: A guide that tells what each picture or symbol means.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 1 Graphs and Tables

Lesson 1 & 2

Example 1 The pictograph shows the favorite fruits of the students.

Key: = 1 student

Fruit	Number of Students	
Apple		7
Banana		5
Orange		3
Grapes		4
Strawberry		2

Answer the Questions:

1. Which fruit has the most students?
   Apple
2. Which fruit has the least students?
   Strawberry
3. How many students like banana?
   5 students
4. How many students like orange?
   3 students
5. How many students are there in all?
   7 + 5 + 3 + 4 + 2 = 21
   21 students

Example 2 The table shows the favorite colors of the students.

Color	Number of Students
Red	8
Blue	6
Green	4
Yellow	5
Purple	3

Answer the Questions:

1. Which color has the most students?
   Red
2. Which color has the least students?
   Purple
3. How many students like blue?
   6 students
4. How many students like green?
   4 students
5. How many students are there in all?
   8 + 6 + 4 + 5 + 3 = 26
   26 students

A table shows numbers clearly in rows and columns.

Practice 1 Read the pictograph and answer.

Key: = 1 student

Sport	Number of Students
Football	
Basketball	
Tennis	
Swimming	
Cycling	

1. Which sport has the most students? _____
2. Which sport has the least students? _____
3. How many students like tennis? _____
4. How many students like football? _____
5. How many students are there in all? _____

Practice 2 Read the table and answer.

Animal	Number of Students
Cat	7
Dog	4
Rabbit	3
Bird	6
Fish	2

1. Which animal has the most students? _____
2. Which animal has the least students? _____
3. How many students like dog? _____
4. How many students like bird? _____
5. How many students are there in all? _____

Think! Graphs and tables help us:

- Organize data
- Read data easily
- Compare data

Real Life

We can use graphs and tables to organize information about our class, our favorite things, and more.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 1

Graphs and Tables

Lesson 1 & 2

Example 3 The pictograph shows the favorite vegetables of the students.

Vegetable	Number of Students	
Carrot	🥕🥕🥕🥕🥕🥕🥕	6
Tomato	🍅🍅🍅🍅🍅	4
Potato	🥔🥔🥔🥔🥔🥔	5
Cucumber	🥒🥒🥒🥒	3
Pepper	🫑🫑	2

Key: 🥕 = 1 student

Answer the Questions:

1. Which vegetable has the most students?
   Carrot
2. Which vegetable has the least students?
   Pepper
3. How many students like potato?
   5 students
4. How many students like cucumber?
   3 students
5. How many students are there in all?
   6 + 4 + 5 + 3 + 2 = 20
   20 students

Example 4 The table shows the favorite drinks of the students.

Drink	Number of Students
Milk	7
Juice	5
Water	6
Lemonade	3
Soda	2

Answer the Questions:

1. Which drink has the most students?
   Milk
2. Which drink has the least students?
   Soda
3. How many students like juice?
   5 students
4. How many students like water?
   6 students
5. How many students like lemonade?
   3 students
6. How many students are there in all?
   7 + 5 + 6 + 3 + 2 = 23
   23 students

Tip! Always look at the key first, then count carefully.

Practice 3 Read the pictograph and answer.

Book Type	Number of Students
Story Books	★★★★★★★★
Science Books	★★★½
Poetry Books	★★★★
Comics	★★★
Other Books	★★

Key: ★ = 1 student

1. Which book type has the most students? _____
2. Which book type has the least students? _____
3. How many students like science books? _____
4. How many students like poetry books? _____
5. How many students are there in all? _____

Practice 4 Read the table and answer.

Season	Number of Students
Spring	5
Summer	8
Autumn	4
Winter	3

1. Which season has the most students? _____
2. Which season has the least students? _____
3. How many students like summer? _____
4. How many students like winter? _____
5. How many students are there in all? _____

Did You Know?

We see graphs and tables every day around us.
They help us understand information quickly.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Exercise 1

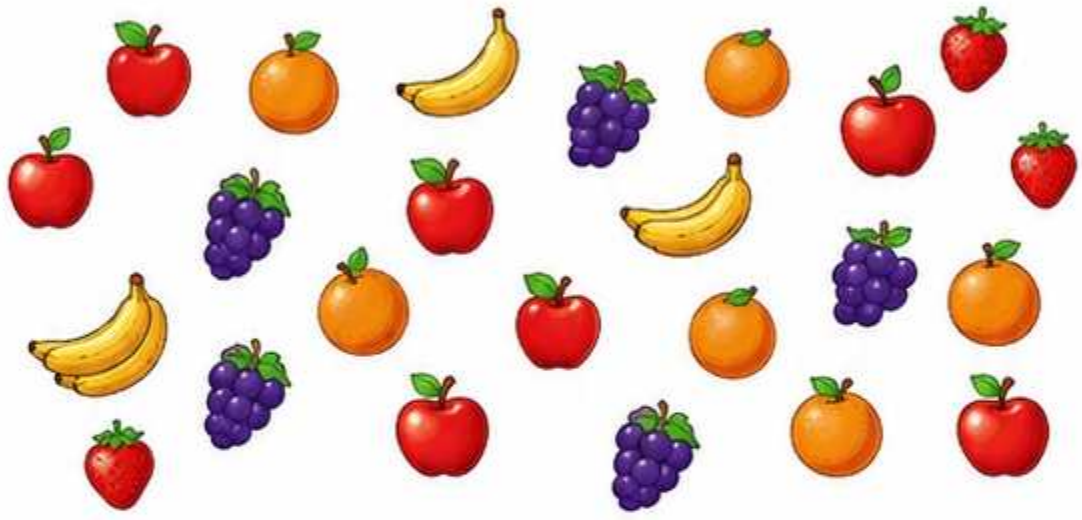
Graphs and Tables

Lessons 1 & 2

We use graphs and tables to organize and read data.

A Count the fruits below and complete the pictograph and the table.

Number of Fruits				
Apple	Banana	Orange	Grapes	Strawberry



Number of Fruits					
Fruit	Apple	Banana	Orange	Grapes	Strawberry
Number					

B Count the animals below and complete the pictograph and the table.

Number of Animals				
Lion	Giraffe	Elephant	Zebra	Monkey

Number of Animals					
Animal	Lion	Giraffe	Elephant	Zebra	Monkey
Number					

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Exercises

1 Look at the tally chart and answer the questions.

Favorite Toys	
Toy	Tally
Ball	𝍸 |||
Doll	|||| |
Car	𝍸 ||||
Puzzle	|||
Robot	|||

1. How many children like balls? _____
2. How many children like dolls? _____
3. How many children like cars? _____
4. How many children like puzzles? _____
5. Which toy do the children like the most? _____
6. Which toy do the children like the least? _____
7. How many children were counted in all? _____

2 Look at the picture graph and answer the questions.

Ice Creams Sold	
Chocolate	🍦🍦🍦🍦🍦🍦🍦
Vanilla	🍦🍦🍦🍦🍦
Strawberry	🍦🍦🍦🍦🍦🍦🍦🍦🍦🍦
Mango	🍦🍦🍦🍦🍦🍦🍦
Mint	🍦🍦🍦🍦

Key: 🍦 = 1 ice cream

1. How many chocolate ice creams were sold? _____
2. How many vanilla ice creams were sold? _____
3. How many strawberry ice creams were sold? _____
4. How many mint ice creams were sold? _____
5. Which flavor was sold the most? _____
6. Which flavor was sold the least? _____
7. How many ice creams were sold in all? _____

3 Look at the table and answer the questions.

Subjects Students Like	
Subject	Number of Students
Math	16
English	12
Science	8
Art	6
P.E.	10

1. How many students like Math? _____
2. How many students like English? _____
3. How many students like Science? _____
4. How many students like Art? _____
5. How many students like P.E.? _____
6. Which subject do the students like the most? _____
7. Which subject do the students like the least? _____

4 Look at the bar graph and answer the questions.

1. How many books were borrowed on Monday? _____
2. How many books were borrowed on Wednesday? _____
3. How many books were borrowed on Friday? _____
4. How many books were borrowed on Sunday and Tuesday? _____
5. On which day were 10 books borrowed? _____
6. On which day were the least books borrowed? _____
7. How many books were borrowed in all during the week? _____

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Exercise 1

Graphs and Tables

Lessons 1 & 2

We use graphs and tables to organize and read data.

A Look at the animals below and complete the pictograph and the table.

Favorite Animals

Cat	Dog	Parrot	Turtle	Rabbit

Favorite Animals

Animal	Cat	Dog	Parrot	Turtle	Rabbit
Number					

B Use the table above to answer the following questions.

1. Which animal is the favorite? _____
2. Which animal is the least favorite? _____
3. How many cats are there? _____
4. How many dogs are there? _____
5. How many parrots are there? _____
6. How many turtles are there? _____
7. How many rabbits are there? _____
8. How many animals are there in all? _____

C Put a (✓) in front of the correct statement and an (✗) in front of the wrong one.

1. ( ) The least favorite animal is the cat.
2. ( ) The number of rabbits is more than the number of turtles.
3. ( ) The number of dogs is equal to the number of cats.
4. ( ) The total number of animals is greater than 20.

D Answer the following questions.

1. How many more parrots than rabbits are there? _____
2. How many fewer turtles than dogs are there? _____
3. How many animals of the same kind are there? Which animal? _____
4. What is the difference between the number of cats and rabbits? _____
5. If 2 more dogs are added, how many dogs will there be? _____

Count carefully and complete the graph and the table.

Mr. Mohamed Mahmoud – 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2
Graphs and Tables
How to read graphs and tables

1 Look at the graph and answer the questions.

The favorite fruit of some children

Fruit	
Apple	● ● ● ● ●
Banana	● ● ● ● ● ● ● ●
Orange	● ● ● ●
Grapes	● ● ●
Watermelon	● ●

● = One child

1. How many children like apple? _____
2. How many children like banana? _____
3. How many children like orange? _____
4. How many children like grapes? _____
5. How many children like watermelon? _____
6. Which fruit do the most children like? _____
7. Which fruit do the least children like? _____
8. How many children were asked in all? _____
9. How many more children like banana than apple? _____
10. How many fewer children like grapes than orange? _____

2 Complete the table using the graph above.

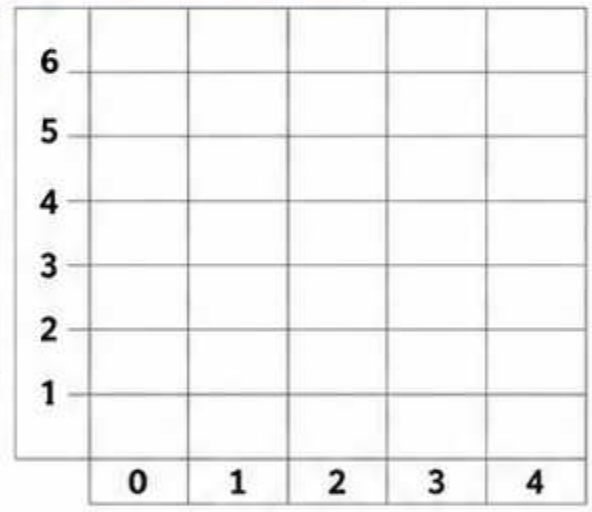
Fruit	Apple	Banana	Orange	Grapes	Watermelon
Tally marks					
Number of children					

3 Draw a graph using the table.

The number of toys some children have

Number of toys	Number of children
0	2
1	5
2	4
3	6
4	3

● = One child



4 Look at the table and answer the questions.

The colors of some cars

Color	Number of cars
Red	7
Blue	5
White	6
Black	3
Silver	4

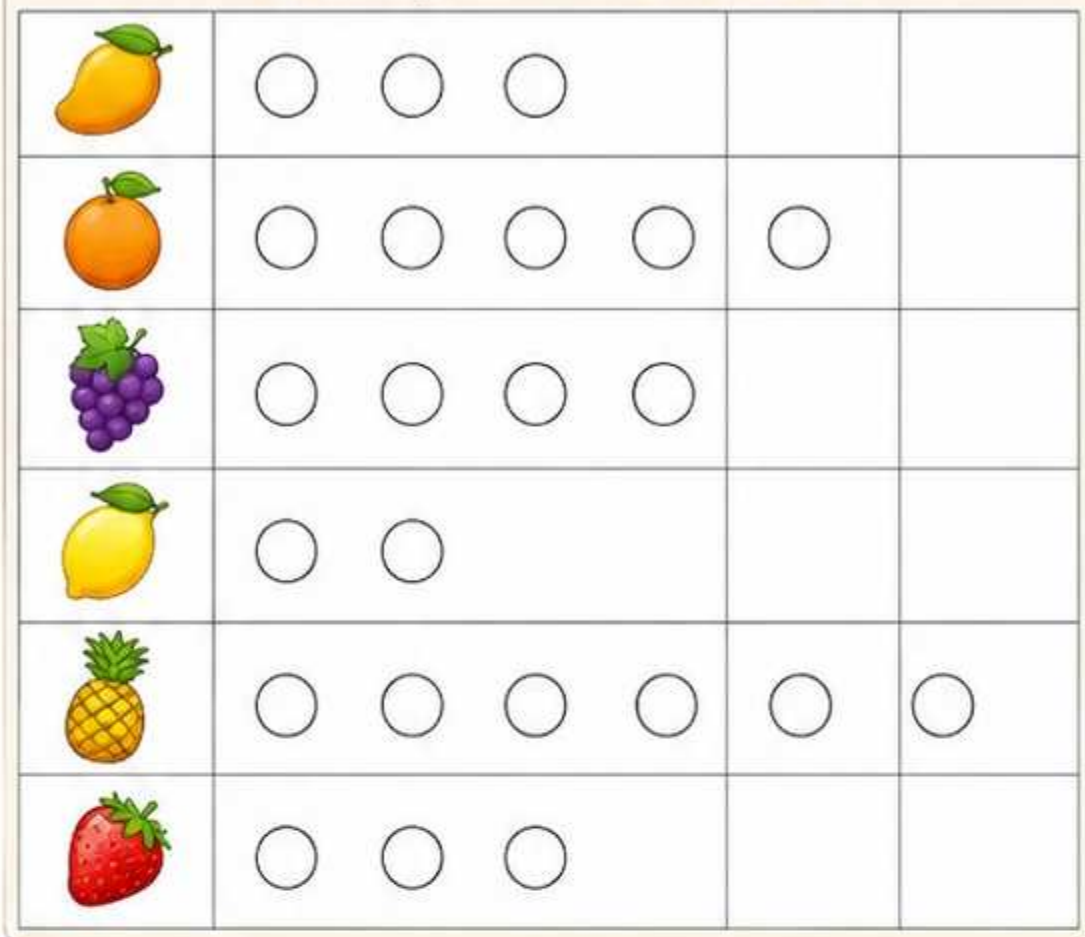
1. How many cars are red? _____
2. How many cars are blue? _____
3. How many cars are white? _____
4. How many cars are black? _____
5. How many cars are silver? _____
6. Which color has the most cars? _____
7. Which color has the least cars? _____
8. How many cars are there in all? _____
9. How many more red cars than black cars are there? _____
10. How many fewer silver cars than white cars are there? _____

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2
Graphs and Tables
How to read graphs and tables

Favorite juice	
Juice	Number of students
Mango	
Orange	
Grapes	
Lemon	
Pineapple	
Strawberry	

Favorite juice of some students



○ = One student

1 Put a (✓) in front of the correct statement and (✗) in front of the wrong one:

( ) ① Pineapple is the least favorite juice.

( ) ② Orange is more favorite than Mango.

( ) ③ The juice that is liked by the same number of students as Lemon is Strawberry.

( ) ④ The juice that is liked by more students is Pineapple.

( ) ⑤ The number of students who like Lemon is less than the number of students who like Grapes.

2 Complete:

① The most favorite juice is _____.

② The number of students who like Pineapple is _____.

③ The number of students who like Lemon and Orange together is _____.

④ The number of students who like Grapes and Strawberry together is _____.

⑤ The total number of students who were asked is _____.

⑥ The difference between the number of students who like Pineapple and Strawberry is _____.

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

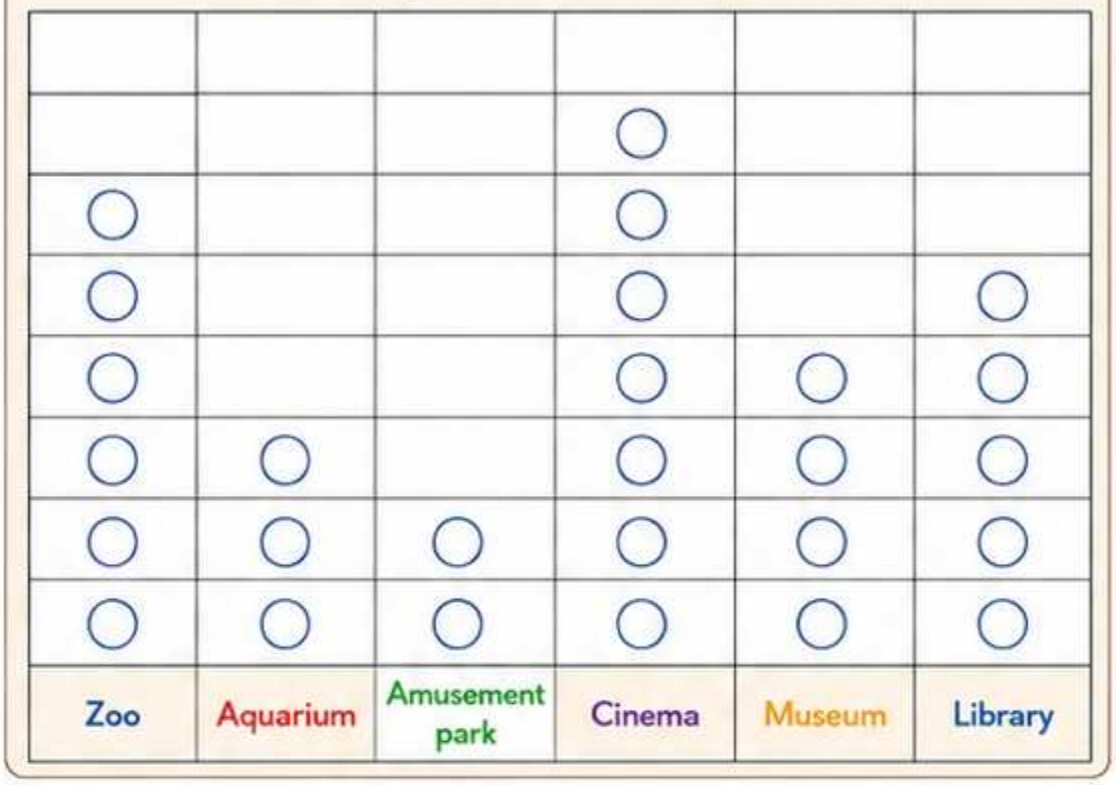
Lesson 1&2

Graphs and Tables

How to read graphs and tables

Favorite places	
Favorite place	Number of students
Zoo	7
Aquarium	4
Amusement park	3
Cinema	8
Museum	5
Library	6

Favorite places of some students



○ = One student

1. Which place do the most students prefer? _____
2. Which place do the least students prefer? _____
3. How many students prefer Cinema and Library together? _____
4. How many students prefer the Amusement park? _____
5. How many students prefer the Zoo? _____

Test Yourself

Ice cream flavors

○ = One student

1. The flavor that is preferred by the most students is _____.
2. The flavor that is preferred by 8 students is _____.
3. The number of students who prefer Mint is _____.
4. The total number of students who prefer chocolate and strawberry is _____.
5. The total number of students who prefer mango and cookies & cream is _____.
6. The difference between the number of students who prefer chocolate and vanilla is _____.

Great work!

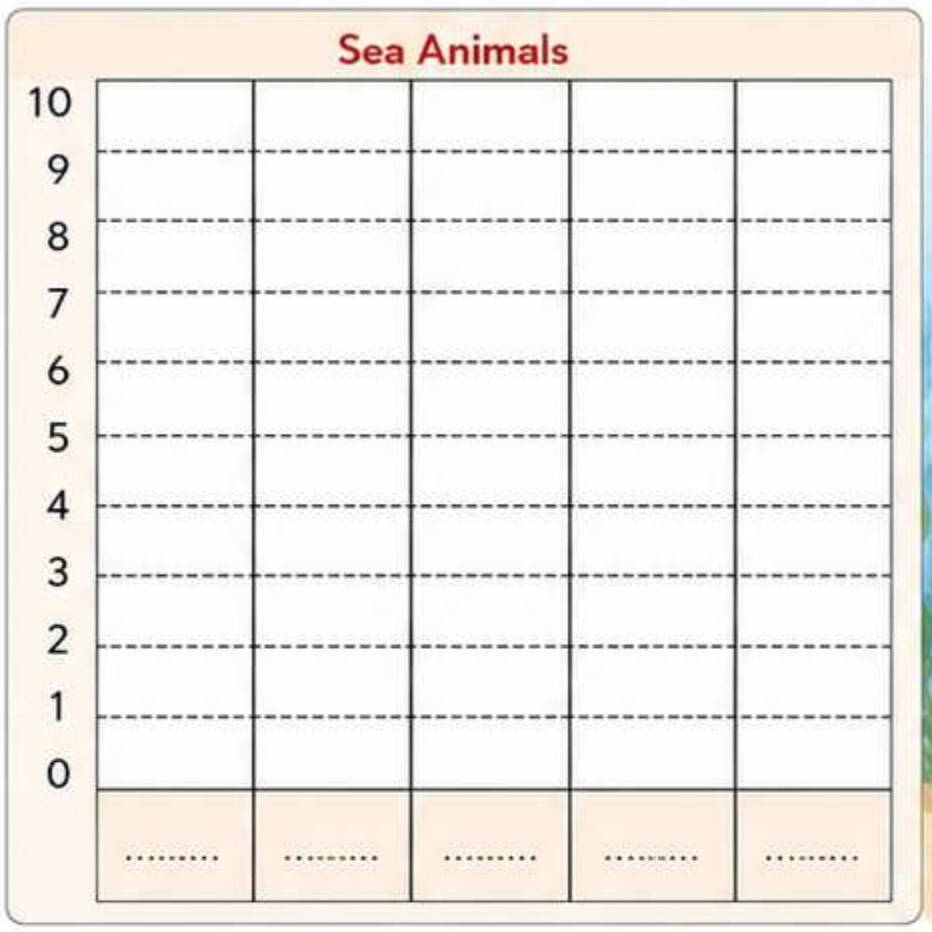
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

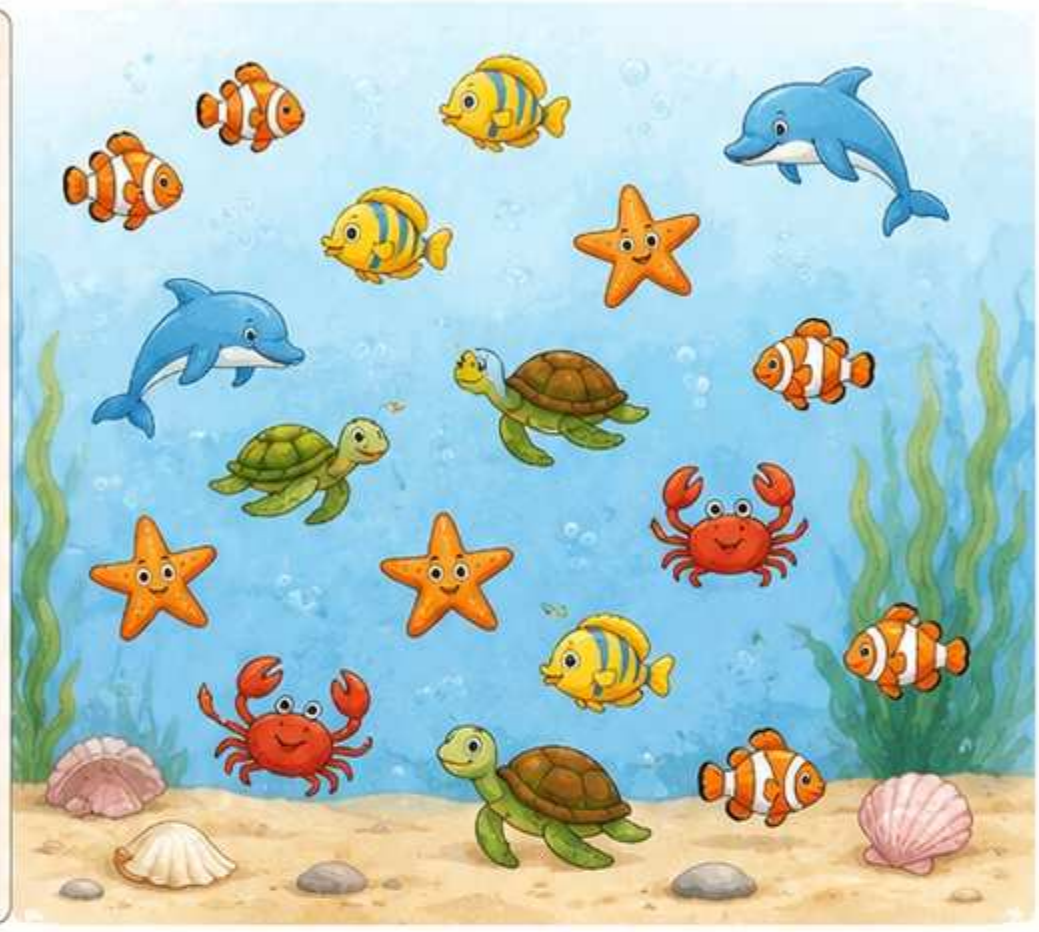
Lesson 1&2

Graphs and Tables

How to read graphs and tables

1 Look at the pictures and write the name of each sea animal in the graph. Then complete the table and answer the questions.





First: Use the picture graph to complete the table below:

Sea Animals					
Animal	.....	.....	.....	.....	.....
Number of animals					

Second: Choose the correct answer:

1. Which animal appears the most?
   (A) Starfish (B) Dolphin (C) Turtle (D) Clownfish

2. Which animal appears the least?
   (A) Crab (B) Seashell (C) Starfish (D) Turtle

3. How many dolphins are there?
   (A) 2 (B) 3 (C) 4 (D) 5

4. How many turtles and starfish are there together?
   (A) 8 (B) 9 (C) 10 (D) 11

5. How many seashells are there?
   (A) 3 (B) 7 (C) 8 (D) 9

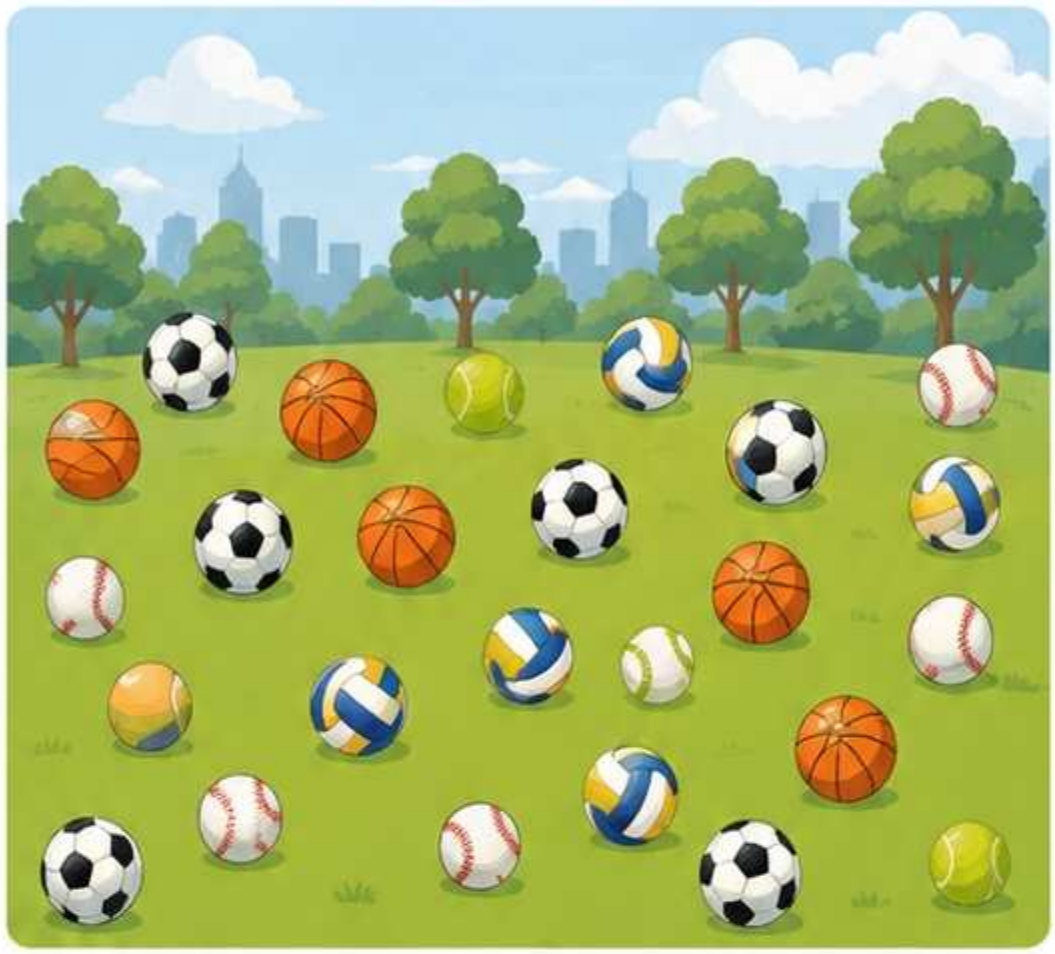
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2

Graphs and Tables

How to read graphs and tables

1 Look at the picture graph and write the name of each sport in the graph. Then complete the table and answer the questions.



First: Use the picture graph to complete the table below:

Sports					
Sport	.....	.....	.....	.....	.....
Number of students					

Second: Choose the correct answer:

1. Which sport is the most popular?
   (A) Soccer (B) Basketball (C) Volleyball (D) Baseball

2. Which sport is the least popular?
   (A) Tennis (B) Baseball (C) Volleyball (D) Soccer

3. How many students like basketball?
   (A) 4 (B) 6 (C) 7 (D) 8

4. How many students like volleyball and tennis together?
   (A) 11 (B) 10 (C) 9 (D) 8

5. How many more students like soccer than baseball?
   (A) 2 (B) 3 (C) 4 (D) 5

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2
Graphs and Tables
How to read graphs and tables

1 Look at the picture graph and write the name of each pet in the graph.
Then complete the table and answer the questions.

First: Use the picture graph to complete the table below:

Pets					
Pet	.....	.....	.....	.....	.....
Number of pets					

Second: Choose the correct answer:

1. Which pet is the most popular?
   (A) Dog (B) Cat (C) Bird (D) Turtle

2. Which pet is the least popular?
   (A) Bird (B) Fish (C) Turtle (D) Dog

3. How many cats are there?
   (A) 3 (B) 4 (C) 5 (D) 6

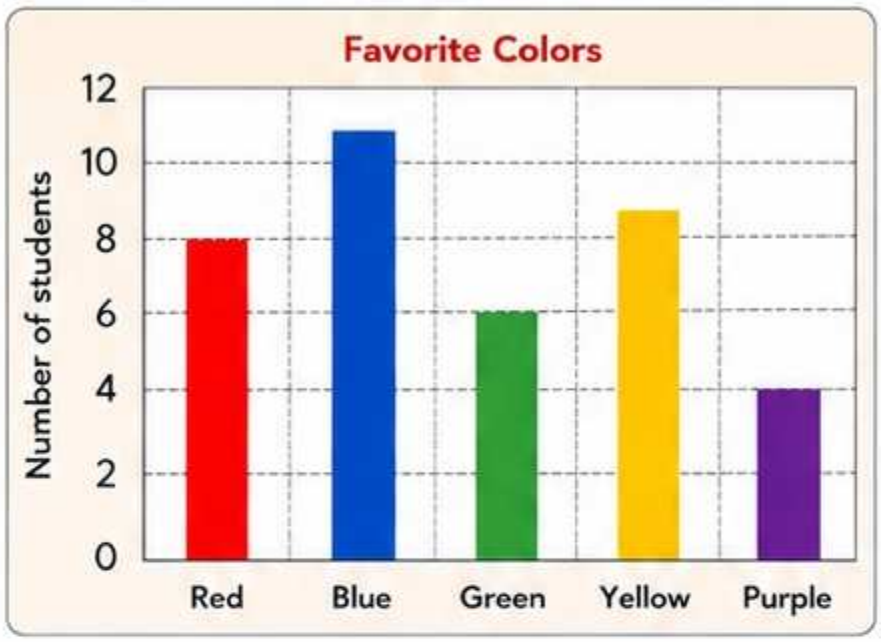
4. How many dogs and turtles are there together?
   (A) 6 (B) 7 (C) 8 (D) 9

5. How many more birds than fish are there?
   (A) 1 (B) 2 (C) 3 (D) 4

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2
Graphs and Tables
How to read graphs and tables

1 Look at the bar graph and answer the questions that follow.



1. Which color is the most favorite? _____
2. Which color is the least favorite? _____
3. How many students like blue? _____
4. How many students like yellow and red together? _____
5. How many more students like blue than green? _____

2 Complete the frequency table using tally marks and then answer the questions.

Fruits in a basket

Fruit	Tally	Number
Apple		
Banana		
Orange		
Grapes		
Strawberry		
Pineapple		

1. Which fruit is the most? _____
2. Which fruit is the least? _____
3. How many apples and bananas are there together? _____
4. How many oranges are there? _____
5. How many fruits are there in all? _____

3 Read the table and complete the sentences.

Books in the school library	
Type of Book	Number of Books
Story books	15
Science books	10
Math books	8
History books	6
Comics	12

1. There are _____ story books in the library.
2. There are _____ science books in the library.
3. There are _____ math books in the library.
4. There are _____ history books in the library.
5. There are _____ fewer history books than science books.
6. There are _____ more story books than comics.
7. The total number of books in the library is _____ .

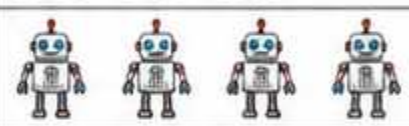
4 Choose the correct answer.

1. Which graph type is best to show favorite colors?
   (A) Bar graph (B) Picture graph (C) Line graph (D) Pie chart
2. A table is used to _____ .
   (A) count items (B) show data in rows and columns
   (C) draw pictures (D) measure length
3. If 7 students like apples and 5 like oranges, how many like apples and oranges together?
   (A) 11 (B) 12 (C) 13 (D) 14
4. In a picture graph, each picture stands for _____ .
   (A) one object (B) two objects (C) five objects (D) ten objects
5. Which of the following is NOT a way to show data?
   (A) Bar graph (B) Tally chart
   (C) Picture graph (D) Story writing
6. The number 0 on a bar graph shows that _____ .
   (A) there is nothing (B) there is one
   (C) there is ten (D) there is many

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson 1&2
Graphs and Tables
How to read graphs and tables

1 Look at the picture graph and answer the questions.

Toys at the store	
Doll	
Car	
Ball	
Teddy bear	
Robot	

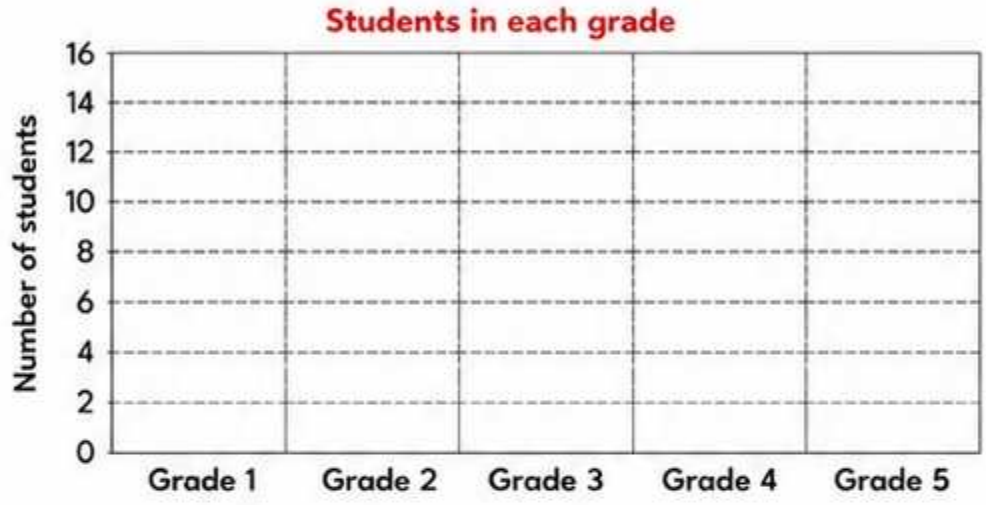
= 1 toy

1. Which toy is the most in number? _____
2. Which toy is the least in number? _____
3. How many cars are there? _____
4. How many balls are there? _____
5. How many more balls than teddy bears are there? _____
6. How many toys are there in all? _____

2 The table shows the number of students in each grade. Use the table to draw a bar graph, then answer the questions.

Students in each grade	
Grade	Number of students
Grade 1	12
Grade 2	8
Grade 3	15
Grade 4	9
Grade 5	6

Students in each grade

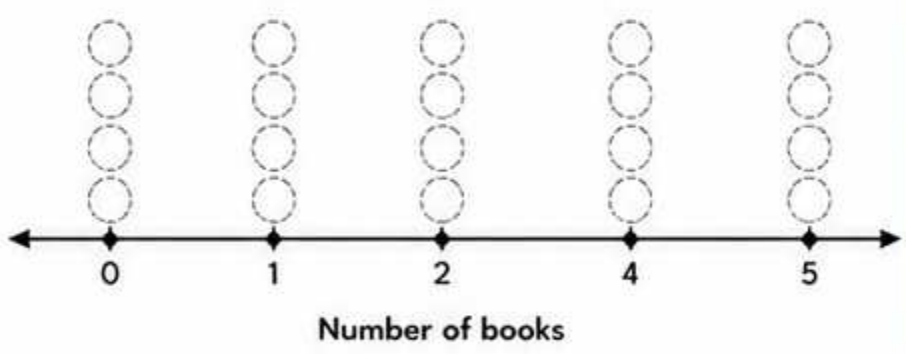


1. Which grade has the most students? _____
2. Which grade has the least students? _____
3. How many students are in Grade 3? _____
4. How many more students are in Grade 1 than Grade 2? _____
5. How many students are in Grade 4 and Grade 5 together? _____

3 The table shows the number of books some children read in one week. Use the table to complete the line plot, then answer the questions.

Books read in one week	
Number of books	Number of children
0	1
1	3
2	5
3	4
4	2
5	0

Books read in one week



Remember:
Each X (cross) represents one child.
X

1. How many children read 2 books? _____
2. How many children read 3 or more books? _____
3. How many children read fewer than 2 books? _____
4. Which number of books was read by the most children? _____
5. How many children were in the survey in all? _____
6. How many more children read 2 books than 4 books? _____

★ **Choose the correct answer.**

7. Which number of books was read by the least children?
   (A) 0 (B) 1 (C) 4 (D) 5
8. How many children read exactly 1 or 3 books?
   (A) 3 (B) 4 (C) 6 (D) 7
9. How many children read 2 books?
   (A) 2 (B) 3 (C) 4 (D) 5

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

Let's Learn

Add any two (2)-digit numbers:

On a school trip, bus 43 students in one bus, and 15 students in another bus.

What is the **total number** of students in both buses?

We can find the **sum: 43 + 15**

The steps of vertical addition

1 Write the numbers according to the place value chart (ones under ones, tens under tens).

Tens	Ones	
4	3	
1	5	+

2 Add the ones:

$3 + 5 = 8$

Tens	Ones	
4	3	
1	5	+
	8	

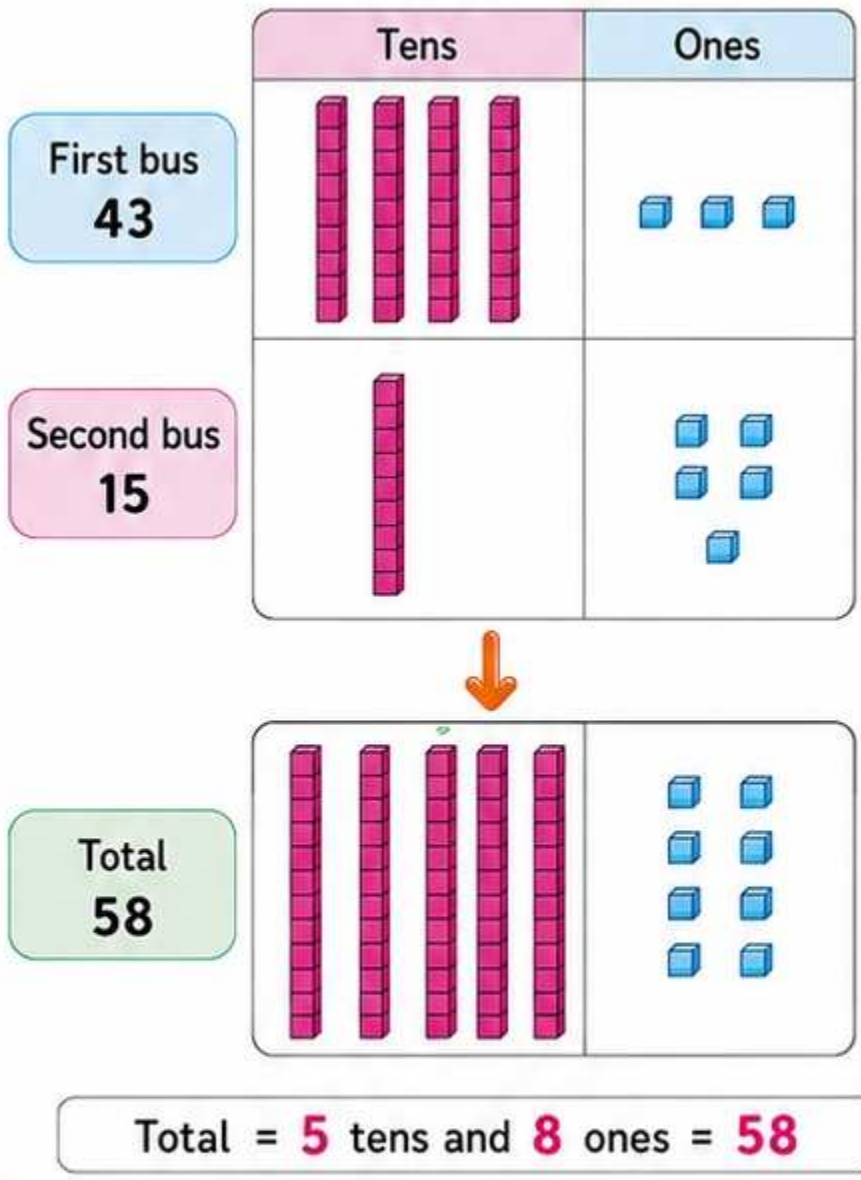
3 Add the tens:

$4 + 1 = 5$

Tens	Ones	
4	3	
1	5	+
5	8	

Place value chart (another way)

Use base ten blocks and place value chart (tens and ones).



Total = 5 tens and 8 ones = 58

So, 43 + 15 = 58

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

Add any two (2)-digit numbers:

Example: Find the sum: **25 + 42**

The steps of vertical addition

1 Write the numbers according to the place value chart (ones under ones, tens under tens).

Tens	Ones	
2	5	
4	2	+

2 Add the ones:

$5 + 2 = 7$

Tens	Ones	
2	5	
4	2	+
	7	

3 Add the tens:

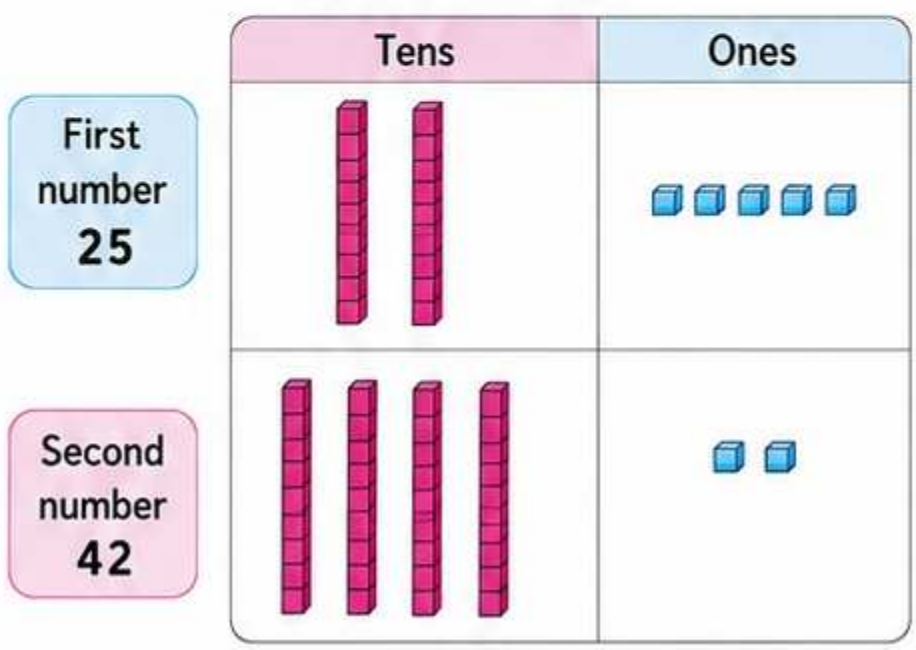
$2 + 4 = 6$

Tens	Ones	
2	5	
4	2	+
6	7	

So, $25 + 42 = 67$

Place value chart (another way)

Use base ten blocks and place value chart (tens and ones).



Total = 6 tens and 7 ones = 67

Let's Practice

Find the sum using vertical addition.

1 12 + 23 = ☐	**2** 34 + 15 = ☐	**3** 41 + 27 = ☐	**4** 23 + 36 = ☐	**5** 52 + 18 = ☐
6 61 + 29 = ☐	**7** 43 + 38 = ☐	**8** 24 + 47 = ☐	**9** 73 + 19 = ☐	**10** 82 + 17 = ☐

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

Learn and Understand

We will add without regrouping.

Example 1: Add a 2-digit number and a 1-digit number

Find the sum: 34 + 5

	Tens	Ones
	3	4
+		5
	3	9

$$\begin{array}{r} 34 \\ +\ 5 \\ \hline 39 \end{array}$$

Steps:

1. Write the numbers in the correct place value columns.
2. Add the ones: 4 + 5 = 9.
3. Keep the tens digit 3.
4. The sum is 39.

Example 2: Add a 2-digit number and a 2-digit number

Find the sum: 52 + 17

	Tens	Ones
	5	2
+	1	7
	6	9

$$\begin{array}{r} 52 \\ +\ 17 \\ \hline 69 \end{array}$$

Steps:

1. Add the ones: 2 + 7 = 9.
2. Add the tens: 5 + 1 = 6.
3. The sum is 69.

Common Mistake

Writing the one-digit number under the tens column.

✗ Wrong

	Tens	Ones
	3	4
+	5	

Put the one-digit number in the ones column.

✓ Correct

	Tens	Ones
	3	4
+		5

A Let's Practice

Find the sum using vertical addition (2-digit + 1-digit).

1. 41 + 8 = ☐
2. 62 + 5 = ☐
3. 53 + 4 = ☐
4. 74 + 2 = ☐
5. 25 + 3 = ☐
6. 80 + 7 = ☐

B Let's Practice

Find the sum using vertical addition (2-digit + 2-digit).

1. 24 + 35 = ☐
2. 41 + 18 = ☐
3. 53 + 26 = ☐
4. 72 + 17 = ☐
5. 34 + 25 = ☐
6. 61 + 28 = ☐

C Think and Solve

1. Sara has 24 stickers. Her friend gives her 5 more stickers.
   How many stickers does Sara have now?
   Answer: ☐

2. A basket contains 32 apples. Another basket contains 16 apples.
   How many apples are there altogether?
   Answer: ☐

D Check Your Understanding ✓

1. 47 + 2 = ☐
2. 54 + 15 = ☐
3. 63 + 4 = ☐
4. 31 + 28 = ☐

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2 Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

More Practice

Find the sum using vertical addition.

A Add a 2-digit number and a 1-digit number.

1) 23 + 6 = ☐	2) 42 + 5 = ☐	3) 51 + 7 = ☐	4) 63 + 4 = ☐	5) 72 + 3 = ☐
6) 35 + 2 = ☐	7) 81 + 6 = ☐	8) 40 + 8 = ☐	9) 90 + 9 = ☐	10) 64 + 4 = ☐

B Add a 2-digit number and a 2-digit number.

1) 23 + 15 = ☐	2) 32 + 26 = ☐	3) 41 + 37 = ☐	4) 52 + 44 = ☐	5) 63 + 25 = ☐
6) 24 + 33 = ☐	7) 71 + 16 = ☐	8) 55 + 32 = ☐	9) 82 + 17 = ☐	10) 61 + 28 = ☐

Real Life Problems

1) A shop has 34 red pens. The shopkeeper buys 5 more red pens. How many red pens are there now?

Answer: ☐

2) Lina has 42 marbles. Omar has 17 marbles. How many marbles do they have together?

Answer: ☐

3) A book has 25 pages. Ali reads 3 pages today. How many pages has he read in total?

Answer: ☐

Challenge Yourself

Fill in the missing numbers.

1) 3☐ + 16 = 47	2) ☐2 + 25 = 67	3) 71 + ☐8 = 99	4) ☐3 + 34 = 77

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

Review and Test

Show what you know!

A Choose the correct sum.

1. 34 + 5
   a) 38 b) 39 c) 40
2. 62 + 7
   a) 68 b) 69 c) 70
3. 41 + 8
   a) 48 b) 49 c) 50
4. 53 + 24
   a) 66 b) 67 c) 77
5. 72 + 16
   a) 78 b) 88 c) 89

B Fill in the missing numbers.

1. 23 + 6 = 29
2. 4□ + 5 = 49
3. □1 + 7 = 51
4. 52 + □7 = 69
5. 7□ + 4 = 75

C Write the numbers in the correct place value chart, then find the sum.

1. 28 + 6

Tens	Ones

2 8
+ 6
□

2. 45 + 12

Tens	Ones

4 5
+ 1 2
□

D Solve the following using vertical addition.

1. 35 + 4 = □
2. 60 + 9 = □
3. 43 + 7 = □
4. 27 + 12 = □
5. 51 + 25 = □
6. 34 + 13 = □
7. 62 + 16 = □
8. 71 + 28 = □

E Read and solve the word problems.

1. There are 26 students in the first class.
   There are 6 students in the second class.
   How many students are there in both classes?

Answer:

2. Ahmed has 34 toy cars.
   His brother has 15 toy cars.
   How many toy cars do they have together?

Answer:

3. A box has 52 pencils.
   Sami adds 17 more pencils to it.
   How many pencils are there in the box now?

Answer:

Challenge Find the sum. Which one is the greatest?

1. 32 + 29 = □
2. 45 + 38 = □
3. 61 + 17 = □
4. 53 + 28 = □

The greatest sum is □

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

HOMEWORK

Do your best!

A Find the sum using vertical addition (2-digit + 1-digit).

1) 26 + 3 =	2) 41 + 7 =	3) 53 + 6 =	4) 72 + 8 =	5) 64 + 5 =
6) 35 + 4 =	7) 80 + 9 =	8) 19 + 2 =	9) 42 + 6 =	10) 91 + 3 =

B Find the sum using vertical addition (2-digit + 2-digit).

1) 24 + 13 =	2) 32 + 26 =	3) 45 + 12 =	4) 53 + 24 =	5) 61 + 37 =
6) 27 + 11 =	7) 40 + 18 =	8) 72 + 25 =	9) 34 + 32 =	10) 60 + 29 =

C Write the numbers in the place value chart, then find the sum.

1) 27 + 11 = ☐

Tens	Ones

2 7
+ 1 1
☐

2) 54 + 23 = ☐

Tens	Ones

5 4
+ 2 3
☐

D Solve the word problems.

1) A tree has 36 green leaves.
The wind brings 5 more green leaves.
How many green leaves does the tree have now?

Answer: ☐

2) Mona has 43 story books.
Her brother has 16 story books.
How many story books do they have together?

Answer: ☐

3) There are 25 boys in a class.
There are 14 girls in the same class.
How many students are there in the class?

Answer: ☐

E Challenge Yourself

Find the sum.

1) 34 + 25 =	2) 62 + 18 =	3) 43 + 27 =	4) 71 + 19 =	5) 50 + 34 =

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

REVIEW AND ASSESSMENT

A Choose the Correct Answer.

1. 43 + 5 = ○ 47 ○ 48 ○ 49
2. 61 + 17 = ○ 77 ○ 78 ○ 79
3. 52 + 6 = ○ 57 ○ 58 ○ 59
4. 34 + 25 = ○ 58 ○ 59 ○ 60
5. 70 + 8 = ○ 77 ○ 78 ○ 79
6. 41 + 16 = ○ 56 ○ 57 ○ 58

B Complete.

1. 25 + 4 = ☐
2. 63 + 12 = ☐
3. 40 + 7 = ☐
4. 32 + 26 = ☐
5. 51 + 8 = ☐
6. 45 + 24 = ☐

C Find the Sum Using Vertical Addition.

1. 36 + 2 = ☐
2. 54 + 5 = ☐
3. 42 + 13 = ☐
4. 61 + 17 = ☐
5. 73 + 4 = ☐
6. 52 + 26 = ☐
7. 80 + 9 = ☐
8. 44 + 15 = ☐

D Fill in the Missing Number.

1. 34 + ☐ = 39
2. ☐ + 6 = 52
3. 51 + ☐ = 59
4. ☐ + 14 = 46
5. 62 + ☐ = 68
6. ☐ + 25 = 57

E Solve the Word Problems.

1. Omar has 35 marbles. His brother gives him 4 more marbles. How many marbles does Omar have now?

Answer: ☐

2. There are 42 students on a school bus. Then 15 more students get on the bus. How many students are there altogether?

Answer: ☐

3. A toy shop sold 53 balls in the morning and 24 balls in the afternoon. How many balls were sold together?

Answer: ☐

4. Mariam has 61 stickers. She buys 7 more stickers. How many stickers does she have now?

Answer: ☐

F Higher Order Thinking.

Arrange the sums from smallest to greatest.

52 + 5 | 41 + 16 | 63 + 8 | 32 + 24

_____ < _____ < _____ < _____

G Challenge Question.

Nour solved:

43 + 15 = 57

Is Nour's answer correct?

☐ Yes ☐ No

Correct Sum = ☐

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

MORE PRACTICE

A Find the Sum Using Vertical Addition (2-digit + 1-digit)

1) 23 + 6 = ☐	2) 41 + 7 = ☐	3) 53 + 4 = ☐	4) 72 + 5 = ☐	5) 30 + 9 = ☐
6) 64 + 3 = ☐	7) 80 + 8 = ☐	8) 25 + 2 = ☐	9) 90 + 6 = ☐	10) 57 + 1 = ☐

B Find the Sum Using Vertical Addition (2-digit + 2-digit)

1) 24 + 15 = ☐	2) 32 + 26 = ☐	3) 41 + 18 = ☐	4) 53 + 26 = ☐	5) 61 + 27 = ☐
6) 34 + 25 = ☐	7) 72 + 17 = ☐	8) 43 + 36 = ☐	9) 52 + 24 = ☐	10) 60 + 28 = ☐

C Complete the Place Value Chart, Then Find the Sum

1) 46 + 3 = _____

Tens	Ones
4	6
	3

2) 35 + 21 = _____

Tens	Ones
3	5
2	1

3) 62 + 14 = _____

Tens	Ones
6	2
1	4

4) 70 + 8 = _____

Tens	Ones
7	0
	8

D Circle the Correct Answer

1) 36 + 2 =
a) 37
b) 38
c) 39

2) 52 + 14 =
a) 65
b) 66
c) 67

3) 43 + 6 =
a) 48
b) 49
c) 50

4) 61 + 25 =
a) 85
b) 86
c) 87

5) 80 + 7 =
a) 86
b) 87
c) 88

6) 33 + 24 =
a) 56
b) 57
c) 58

E Fill in the Missing Number

1) 25 + ☐ = 30
2) ☐ + 6 = 42
3) 53 + ☐ = 58
4) ☐ + 15 = 47
5) 61 + ☐ = 69
6) ☐ + 24 = 53

F Read and Solve

1) Hala has 34 colored pencils. Her friend gives her 5 mores colored pencils.
How many colored pencils does Hala have now?

Answer: ☐

2) A fruit basket has 42 apples. Another basket has 16 apples.
How many apples are there altogether?

Answer: ☐

3) There are 51 boys in a school. There are 24 girls in the same school.
How many students are there in total?

Answer: ☐

4) Ali has 63 toy cars. He buys 7 more toy cars.
How many toy cars does Ali have now?

Answer: ☐

Challenge Yourself

Find the greatest sum.

1) 32 + 5 = _____
2) 54 + 14 = _____
3) 41 + 26 = _____
4) 63 + 8 = _____

Greatest Sum: ☐

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

Vertical Addition

Lesson 1 & 2: Vertical Addition (Part 1 and 2)

WORD PROBLEMS

1 Crayons

Laila has 26 crayons.
Her brother gives her 9 more crayons.
How many crayons does Laila have now?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 26 \\ +\ 9 \\ \hline \square \end{array}$$

Answer: _____

2 Oranges

A basket has 34 oranges.
Another basket has 18 oranges.
How many oranges are there altogether?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 34 \\ +\ 18 \\ \hline \square \end{array}$$

Answer: _____

3 Fish

There are 15 red fish in a pond.
There are 27 gold fish in the same pond.
How many fish are there in all?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 15 \\ +\ 27 \\ \hline \square \end{array}$$

Answer: _____

4 Cookies

A jar has 41 cookies.
Mother bakes 12 more cookies.
How many cookies are there now?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 41 \\ +\ 12 \\ \hline \square \end{array}$$

Answer: _____

5 Notebooks

Omar has 37 notebooks.
His aunt gives him 25 more notebooks.
How many notebooks does Omar have now?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 37 \\ +\ 25 \\ \hline \square \end{array}$$

Answer: _____

6 Cards

Sara has 48 greeting cards.
She receives 7 more cards from her friend.
How many greeting cards does Sara have now?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 48 \\ +\ 7 \\ \hline \square \end{array}$$

Answer: _____

7 Trees

There are 29 trees in the garden.
The gardener plants 13 more trees.
How many trees are there in all?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 29 \\ +\ 13 \\ \hline \square \end{array}$$

Answer: _____

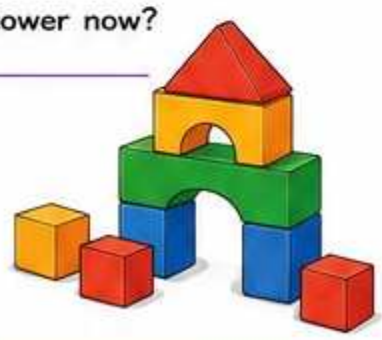
8 Blocks

Amir builds a tower with 36 blocks.
He adds 14 more blocks.
How many blocks are in the tower now?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 36 \\ +\ 14 \\ \hline \square \end{array}$$



Answer: _____

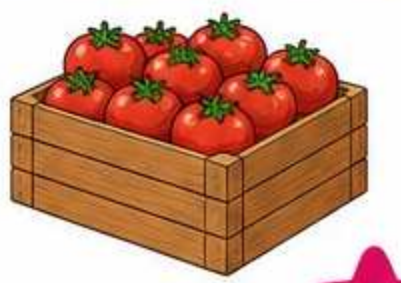
THINK AND SOLVE — Challenge Problem

A farmer picked 46 tomatoes in the morning.
He picked 28 tomatoes in the afternoon.
How many tomatoes did he pick in all?

Number Sentence: _____

Vertical Addition:

$$\begin{array}{r} 46 \\ +\ 28 \\ \hline \square \end{array}$$



Answer: _____

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

UNIT 2

ASSESSMENT

Lessons 1 & 2: Vertical Addition (Without Regrouping)

Primary 2 – First Term

1 Find the Sum

(a) 34 + 5 = ☐

(b) 41 + 12 = ☐

(c) 52 + 7 = ☐

(d) 63 + 15 = ☐

(e) 24 + 33 = ☐

2 Find the Sum Using Vertical Addition, Then Circle the Correct Word

(a) 24 + 13

Greater than 30 | Less than 30

Answer: _____

(b) 41 + 5

Greater than 50 | Less than 50

Answer: _____

(c) 32 + 26

Greater than 55 | Less than 55

Answer: _____

(d) 53 + 4

Greater than 60 | Less than 60

Answer: _____

3 Color by the Key

49 | 58 | 37 | 69

A: 31 + 18 = ☐ Color: _____

B: 42 + 16 = ☐ Color: _____

C: 33 + 4 = ☐ Color: _____

D: 61 + 8 = ☐ Color: _____

4 Complete the Place Value Chart

(a)

Tens	Ones
4	3
	5

(b)

Tens	Ones
5	2
1	6

43 + 5 = _____

52 + 16 = _____

5 Choose the Correct Answer

(a) 31 + 8 =
- ☐ 38
- ☐ 39
- ☐ 40

(b) 45 + 12 =
- ☐ 56
- ☐ 57
- ☐ 58

(c) 61 + 7 =
- ☐ 67
- ☐ 68
- ☐ 60

6 Read, Write the Number Sentence, Then Solve

(a) Mona has 24 stickers.
Her friend gives her 5 more stickers.
How many stickers does Mona have now?

Number Sentence: _____

Answer: _____

(b) There are 31 students on a bus.
Then 16 more students get on the bus.
How many students are there altogether?

Number Sentence: _____

Answer: _____

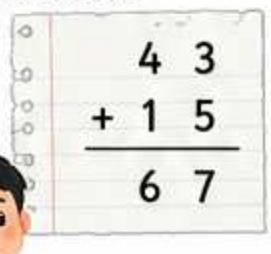
(c) A basket contains 42 apples.
Another basket contains 15 apples.
How many apples are there altogether?

Number Sentence: _____

Answer: _____

7 Discover the Mistake

Ahmed solved:



43 + 15 = 67

Is Ahmed correct?

☐ Yes ☐ No

Correct Answer: _____

Explain the mistake:

_____

_____

8 Challenge

Arrange the sums from smallest to greatest:

52 + 5 = _____ | 34 + 24 = _____ | 61 + 8 = _____ | 42 + 16 = _____

Order:

_____ < _____ < _____ < _____

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

Learning Objectives

- Add two-digit numbers and one-digit numbers with regrouping.
- Add two-digit numbers and two-digit numbers with regrouping.
- Use the vertical method of addition.
- Use place value chart to add numbers.
- Solve word problems.

Warm Up

Find the sum:

1. 24 + 3 = _____
2. 36 + 2 = _____
3. 41 + 6 = _____
4. 17 + 8 = _____

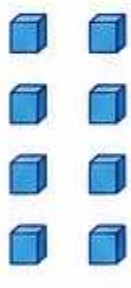
1 First Example

Add 28 + 4 using the vertical method (with regrouping).

Step 1

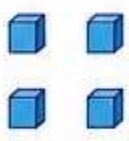
Build the numbers

28

Tens	Ones
	

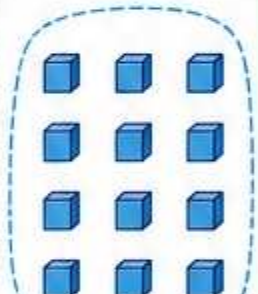
+

4

Tens	Ones
	

Step 2

Add the ones

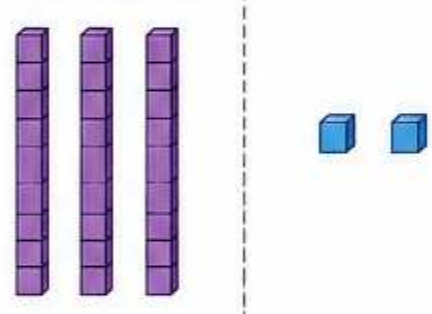
Tens	Ones
	

8 ones + 4 ones = 12 ones

12 ones = 1 ten + 2 ones

Step 3

Add the tens

Tens	Ones
	

	T	O
	2	8
+		4
	3	2

← Sum 32

We exchange 10 ones for 1 ten.
Then we add the tens.

10 ones = 1 ten

Steps to Add with Regrouping

1. Add the ones.
2. If the ones are 10 or more, exchange 10 ones for 1 ten.
3. Write the ones.
4. Add the tens (including the new ten).
5. Write the tens.

Remember!

- Always start adding from the ones column.
- Exchange 10 ones for 1 ten.
- Never forget to add the new ten to the tens column.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

2 Second Example

Add 36 + 5 using the vertical method (with regrouping).

Step 1

Write the numbers in the place value chart.

	Tens	Ones
	3	6
+	0	5

Step 2

Add the ones.

Tens	Ones
3	6
0	5
	11

6 ones + 5 ones = 11 ones
11 ones = 1 ten + 1 one

Step 3

Add the tens.

Tens	Ones
3	6
0	5
4	1

Sum 41

We exchange 10 ones for 1 ten.
Then we add the tens.

10 ones → 1 ten

How to Add with Regrouping

1. Add the ones.
2. If the ones are 10 or more, exchange 10 ones for 1 ten.
3. Write the ones.
4. Add the tens (including the new ten).
5. Write the tens.

Common Mistakes

- ✖ Forgetting to exchange 10 ones for 1 ten.
- ✖ Adding the ones first and forgetting to add the new ten.
- ✖ Writing the new ten in the ones column.
- ✖ Not aligning the numbers by place value.

Guided Practice

Find the sum.

1. 28 + 7

	Tens	Ones
	2	8
+	0	7

2. 45 + 6

	Tens	Ones
	4	5
+	0	6

3. 37 + 8

	Tens	Ones
	3	7
+	0	8

4. 59 + 3

	Tens	Ones
	5	9
+	0	3

Practice

Find the sum.

1. 27 + 6 = ☐☐
2. 34 + 7 = ☐☐
3. 46 + 5 = ☐☐
4. 58 + 4 = ☐☐
5. 63 + 8 = ☐☐
6. 39 + 2 = ☐☐
7. 47 + 6 = ☐☐
8. 29 + 9 = ☐☐

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

3 More Examples

Find the sum using the vertical method (with regrouping).

1 27 + 6

	Tens	Ones
	2	7
+	0	6
	3	3

7 ones + 6 ones = 13 ones
13 ones = 1 ten + 3 ones

2 38 + 4

	Tens	Ones
	3	8
+	0	4
	4	2

8 ones + 4 ones = 12 ones
12 ones = 1 ten + 2 ones

3 46 + 7

	Tens	Ones
	4	6
+	0	7
	5	3

6 ones + 7 ones = 13 ones
13 ones = 1 ten + 3 ones

4 39 + 5

	Tens	Ones
	3	9
+	0	5
	4	4

9 ones + 5 ones = 14 ones
14 ones = 1 ten + 4 ones

5 24 + 8

	Tens	Ones
	2	4
+	0	8
	3	2

4 ones + 8 ones = 12 ones
12 ones = 1 ten + 2 ones

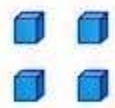
6 57 + 6

	Tens	Ones
	5	7
+	0	6
	6	3

7 ones + 6 ones = 13 ones
13 ones = 1 ten + 3 ones

Place Value Chart Reminder

We write numbers by place value.

Tens	Ones
	

→

Tens	Ones
2	5

This is twenty-five.

Compare

After regrouping, we add the tens.

1 (new ten) + 2 (old tens) = 3 (total tens)

1 + 2 = 3 tens

Quick Check

Find the sum.

1 16 + 5 = ☐☐

2 25 + 7 = ☐☐

3 34 + 6 = ☐☐

4 48 + 4 = ☐☐

5 69 + 3 = ☐☐

6 77 + 8 = ☐☐

Did You Know?

When we add numbers, we always start from the ones column.
If the ones are 10 or more, we exchange them for 1 ten.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

4 Adding Two-Digit Numbers (With Regrouping)

Find the sum using the vertical method (with regrouping).

1 27 + 18

	Tens	Ones
	2	7
+	1	8
	4	5

7 ones + 8 ones = 15 ones
15 ones = 1 ten + 5 ones
Add the tens: 2 + 1 + 1 = 4 tens

2 36 + 27

	Tens	Ones
	3	6
+	2	7
	6	3

6 ones + 7 ones = 13 ones
13 ones = 1 ten + 3 ones
Add the tens: 3 + 2 + 1 = 6 tens

3 48 + 35

	Tens	Ones
	4	8
+	3	5
	8	3

8 ones + 5 ones = 13 ones
13 ones = 1 ten + 3 ones
Add the tens: 4 + 3 + 1 = 8 tens

4 59 + 26

	Tens	Ones
	5	9
+	2	6
	8	5

9 ones + 6 ones = 15 ones
15 ones = 1 ten + 5 ones
Add the tens: 5 + 2 + 1 = 8 tens

5 67 + 18

	Tens	Ones
	6	7
+	1	8
	8	5

7 ones + 8 ones = 15 ones
15 ones = 1 ten + 5 ones
Add the tens: 6 + 1 + 1 = 8 tens

6 74 + 29

	Tens	Ones
	7	4
+	2	9
	10	3

4 ones + 9 ones = 13 ones
13 ones = 1 ten + 3 ones
Add the tens: 7 + 2 + 1 = 10 tens

Steps to Add Two-Digit Numbers (With Regrouping)

1. Add the ones.
2. If the ones are 10 or more, exchange 10 ones for 1 ten.
3. Write the ones.
4. Add the tens (including the new ten).
5. Write the tens.

Remember!

- Always start adding from the ones column.
- Exchange 10 ones for 1 ten.
- Never forget to add the new ten to the tens column.
- Write the tens under the tens column.

Guided Practice

Find the sum.

1 28 + 14

	Tens	Ones
	2	8
+	1	4

2 37 + 26

	Tens	Ones
	3	7
+	2	6

3 49 + 35

	Tens	Ones
	4	9
+	3	5

4 58 + 27

	Tens	Ones
	5	8
+	2	7

Practice

Find the sum.

1 26 + 17 = ☐☐

2 34 + 28 = ☐☐

3 45 + 36 = ☐☐

4 66 + 18 = ☐☐

5 57 + 29 = ☐☐

6 68 + 25 = ☐☐

7 79 + 14 = ☐☐

8 47 + 38 = ☐☐

Did You Know?

When we add two-digit numbers, always check your answer.
Estimation helps you know if your answer is reasonable.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

Practice 1 Find the sum using the vertical method (with regrouping). (Two-digit number + One-digit number)

1 28 + 5

	Tens	Ones
	2	8
+		5

2 36 + 7

	Tens	Ones
	3	6
+		7

3 47 + 9

	Tens	Ones
	4	7
+		9

4 59 + 3

	Tens	Ones
	5	9
+		3

5 64 + 8

	Tens	Ones
	6	4
+		8

6 78 + 6

	Tens	Ones
	7	8
+		6

7 85 + 4

	Tens	Ones
	8	5
+		4

8 93 + 7

	Tens	Ones
	9	3
+		7

Practice 2 Find the sum using the vertical method (with regrouping). (Two-digit number + Two-digit number)

1 27 + 18

	Tens	Ones
	2	7
+	1	8

2 36 + 27

	Tens	Ones
	3	6
+	2	7

3 48 + 35

	Tens	Ones
	4	8
+	3	5

4 57 + 26

	Tens	Ones
	5	7
+	2	6

5 64 + 28

	Tens	Ones
	6	4
+	2	8

6 73 + 19

	Tens	Ones
	7	3
+	1	9

7 86 + 37

	Tens	Ones
	8	6
+	3	7

8 95 + 16

	Tens	Ones
	9	5
+	1	6

Practice 3 Solve the following word problems.

1 Ali has 27 stickers.
His brother gives him 8 more.
How many stickers does Ali have now?

_____

Tens	Ones

2 Sara read 36 pages of a book.
Then she read 17 more pages.
How many pages did she read in all?

_____

Tens	Ones

3 A shop sold 48 pens in the morning.
Then it sold 29 pens in the afternoon.
How many pens did it sell in all?

_____

Tens	Ones

4 There are 67 apples in a basket.
25 apples are added to it.
How many apples are there now?

_____

Tens	Ones

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

Practice 1

Find the sum using the vertical method (with regrouping). (Two-digit number + One-digit number)

1 26 + 7

	Tens	Ones
	2	6
+		7

2 34 + 8

	Tens	Ones
	3	4
+		8

3 47 + 6

	Tens	Ones
	4	7
+		6

4 58 + 9

	Tens	Ones
	5	8
+		9

5 63 + 7

	Tens	Ones
	6	3
+		7

6 72 + 8

	Tens	Ones
	7	2
+		8

7 85 + 6

	Tens	Ones
	8	5
+		6

8 91 + 9

	Tens	Ones
	9	1
+		9

9 77 + 5

	Tens	Ones
	7	7
+		5

10 84 + 7

	Tens	Ones
	8	4
+		7

Practice 2

Find the sum using the vertical method (with regrouping). (Two-digit number + Two-digit number)

1 28 + 15

	Tens	Ones
	2	8
+	1	5

2 37 + 28

	Tens	Ones
	3	7
+	2	8

3 46 + 17

	Tens	Ones
	4	6
+	1	7

4 59 + 26

	Tens	Ones
	5	9
+	2	6

5 64 + 29

	Tens	Ones
	6	4
+	2	9

6 73 + 18

	Tens	Ones
	7	3
+	1	8

7 82 + 39

	Tens	Ones
	8	2
+	3	9

8 36 + 27

	Tens	Ones
	3	6
+	2	7

9 47 + 38

	Tens	Ones
	4	7
+	3	8

10 95 + 16

	Tens	Ones
	9	5
+	1	6

Practice 3

Solve the following word problems.

1 Omar has 34 toy cars.
His dad gives him 8 more.
How many toy cars does Omar have now?

Tens	Ones

2 Lina read 27 pages of a storybook.
Then she read 18 more pages.
How many pages did Lina read in all?

Tens	Ones

3 A bakery sold 46 loaves of bread in the morning.
Then it sold 27 loaves in the afternoon.
How many loaves did it sell in all?

Tens	Ones

4 There are 58 balloons in a bag.
24 more balloons are added.
How many balloons are there now?

Tens	Ones

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

Word Problems Solve the following word problems.

1 A library has 28 story books. It gets 17 more story books.

How many story books does the library have now?

	Tens	Ones
+		

Answer: The library has _____ story books now.

2 Lina has 36 stickers. Hana gives her 25 more stickers.

How many stickers does Lina have in all?

	Tens	Ones
+		

Answer: Lina has _____ stickers in all.

3 A shop has 47 notebooks. It sells 18 notebooks in the morning and 26 notebooks in the afternoon.

How many notebooks did it sell in all?

	Tens	Ones
+		

Answer: It sold _____ notebooks in all.

4 Omar has 63 marbles. He gives 29 marbles to his friend and then gets 17 marbles from his brother.

How many marbles does Omar have now?

	Tens	Ones
+		

Answer: Omar has _____ marbles now.

5 A farmer picked 34 apples from one tree and 27 apples from another tree.

How many apples did the farmer pick in all?

	Tens	Ones
+		

Answer: The farmer picked _____ apples in all.

6 There are 51 students in Grade 2A and 38 students in Grade 2B.

How many students are there in Grade 2A and Grade 2B together?

	Tens	Ones
+		

Answer: There are _____ students together.

7 A bus had 39 passengers at the first stop and 26 more passengers got on at the next stop.

How many passengers are on the bus now?

	Tens	Ones
+		

Answer: There are _____ passengers on the bus now.

8 A school library had 42 English books and 29 Arabic books.

How many books does the school library have in all?

	Tens	Ones
+		

Answer: The school library has _____ books in all.

9 Sami reads 24 pages of a book on Monday and 35 pages on Tuesday.

How many pages did Sami read in all?

	Tens	Ones
+		

Answer: Sami read _____ pages in all.

10 There are 46 red balloons and 27 blue balloons for the school party.

How many balloons are there in all?

	Tens	Ones
+		

Answer: There are _____ balloons in all.

Did You Know? Word problems help us use math in everyday life. Read carefully and look for important numbers!

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

Part 3 & Part 4

Word Problems Solve the following word problems.

1 A farmer picked 28 apples from one tree and 16 apples from another tree.
How many apples did he pick in all?

Answer: He picked _____ apples in all.

2 Lina has 34 red crayons and 27 blue crayons.
How many crayons does Lina have in all?

Answer: Lina has _____ crayons in all.

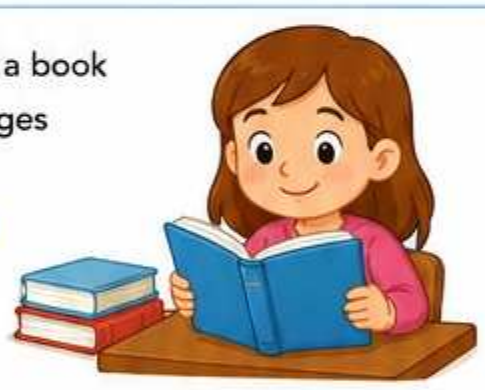
3 A toy store sold 46 cars in the morning and 29 cars in the afternoon.
How many cars did the toy store sell in all?

Answer: The toy store sold _____ cars in all.

4 There are 38 boys in Grade 2A and 27 girls in Grade 2A.
How many students are there in Grade 2A?

Answer: There are _____ students in Grade 2A.

5 Sara read 23 pages of a book on Monday and 28 pages on Tuesday.
How many pages did Sara read in all?



Answer: Sara read _____ pages in all.

6 A bakery made 31 chocolate cupcakes and 24 vanilla cupcakes.
How many cupcakes did the bakery make in all?

Answer: The bakery made _____ cupcakes in all.

7 There are 45 books on the shelf. Then 28 more books are added.
How many books are there on the shelf now?

Answer: There are _____ books on the shelf now.

8 A zoo has 37 monkeys and 26 parrots.
How many animals does the zoo have in all?

Answer: The zoo has _____ animals in all.

9 A bus had 33 passengers at the first stop and 25 more passengers boarded at the next stop.
How many passengers are on the bus now?

Answer: There are _____ passengers on the bus now.

10 A class collected 42 pencils on Monday and 35 pencils on Tuesday for a donation.
How many pencils did they collect in all?

Answer: They collected _____ pencils in all.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Vertical Addition

Lesson 3 & 4

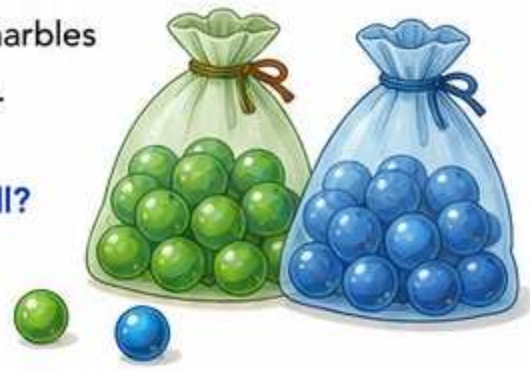
Part 3 & Part 4

Word Problems Solve the following word problems.

1 A fruit seller has 29 oranges in a basket and 18 apples in another basket.
How many fruits does the seller have in all?

Answer: The seller has _____ fruits in all.

2 Rami has 24 green marbles and 37 blue marbles.
How many marbles does Rami have in all?



Answer: Rami has _____ marbles in all.

3 A school planted 35 trees in the garden last month and 26 trees this month.
How many trees did the school plant in all?

Answer: The school planted _____ trees in all.

4 There are 41 books in the English section and 28 books in the Arabic section of the library.
How many books are there in the library?

Answer: There are _____ books in the library.

5 A farmer collected 33 eggs from his hens in the morning and 27 eggs in the afternoon.
How many eggs did the farmer collect in all?

Answer: The farmer collected _____ eggs in all.

6 The cinema sold 48 tickets for the morning show and 25 tickets for the evening show.
How many tickets did the cinema sell in all?

Answer: The cinema sold _____ tickets in all.

7 A shop has 36 blue pens and 29 red pens.
How many pens does the shop have in all?

Answer: The shop has _____ pens in all.

8 There are 39 cars in the parking lot and 28 motorcycles.
How many vehicles are there in the parking lot?

Answer: There are _____ vehicles in the lot.

9 A box has 22 chocolate bars and another box has 19 chocolate bars.
How many chocolate bars are there in all?

Answer: There are _____ chocolate bars in all.

10 Lina drew 31 pictures in her sketchbook last week and 26 pictures this week.
How many pictures did Lina draw in all?

Answer: Lina drew _____ pictures in all.

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit 2

Review Test

Lessson 3 & 4

1 Choose the correct answer.

(a) 27 + 18 = _____

A. 35 B. 45 C. 54 D. 55

(b) 46 + 27 = _____

A. 63 B. 73 C. 82 D. 83

(c) 38 + 29 = _____

A. 57 B. 65 C. 67 D. 77

(d) 64 + 19 = _____

A. 73 B. 81 C. 83 D. 92

2 Add the following.

(a) 34 + 27 = ☐

(b) 58 + 16 = ☐

(c) 47 + 28 = ☐

(d) 65 + 17 = ☐

(e) 39 + 46 = ☐

(f) 72 + 19 = ☐

3 Find the sum.

(a) 23 + 19 = _____

(b) 34 + 28 = _____

(c) 45 + 17 = _____

(d) 56 + 18 = _____

(e) 66 + 27 = _____

(f) 38 + 29 = _____

4 Solve the word problems.

(a) A library has 28 story books. It gets 24 more story books. How many story books does the library have now?

Answer: _____

(b) A parking lot has 36 cars in the morning and 27 cars in the evening. How many cars are in the parking lot in all?

Answer: _____

(c) A farmer picked 34 apples from one tree and 29 apples from another tree. How many apples did the farmer pick in all?

Answer: _____

(d) A bakery made 41 chocolate cupcakes and 26 vanilla cupcakes. How many cupcakes did the bakery make in all?

Answer: _____

5 Fill in the blanks.

- (a) 26 + _____ = 45
- (b) 35 + _____ = 63
- (c) _____ + 27 = 54
- (d) 18 + _____ = 39
- (e) 47 + _____ = 76
- (f) _____ + 29 = 68

6 True or False.

Write ✓ for True or ✗ for False.

(a) 32 + 18 = 51 ( )

(b) 45 + 27 = 72 ( )

(c) 63 + 19 = 92 ( )

(d) 28 + 34 = 62 ( )

(e) 57 + 26 = 83 ( )

7 Which two numbers has a sum of 75? Circle your answer.

A. 46 and 29 B. 37 and 38 C. 48 and 27 D. 56 and 19

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Vertical Addition (Part 5)

Lesson 5

Let's Learn

- Adding any two numbers does not change their order, this is called the (commutative property of addition).

Example: 11 + 14 = 14 + 11

11 + 14

Tens	Ones
1	1
1	4
2	5
25	

14 + 11

Tens	Ones
1	4
1	1
2	5
25	

Check the answer

$$\begin{array}{r} 11 \\ +\ 14 \\ \hline 25 \end{array} \qquad \begin{array}{r} 14 \\ +\ 11 \\ \hline 25 \end{array}$$

So, when we add any two numbers, the result is the same.

Example 1 Join the operations that have the same result:

36 + 52	47 + 43	22 + 68	35 + 38	16 + 9
38 + 35	68 + 22	9 + 16	36 + 52	43 + 47

Example 2 Read then write the addition operation in two different ways:

Ahmed has 23 pencils, and his brother has 42 pencils. What is the total number of pencils they have?

Method 1

- Addition operation: 23 + 42 = 65
- Answer: 65 pencils.

Method 2

- Addition operation: 42 + 23 = 65
- Answer: 65 pencils.

Check Yourself

Complete:

(a) 27 + ... = 50 + 27 (b) ..... + 38 = 38 + 25

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Vertical Addition (Part 5)

Lesson 5

Example 3 Add using the place value table, then write the addition operation vertically:

Tens	Ones
1	3
1	4
2	7

$$\begin{array}{r} 13 \\ +\ 14 \\ \hline 27 \end{array}$$

1 ten and 7 ones is the same as 27.

Example 4 Add using the place value table, then write the addition operation vertically:

Tens	Ones
2	2
1	5
3	7

$$\begin{array}{r} 22 \\ +\ 15 \\ \hline 37 \end{array}$$

3 tens and 7 ones is the same as 37.

Common Mistake !

Some students add ones with tens.

✗ $\begin{array}{r} 22 \\ +\ 15 \\ \hline 37 \end{array}$ (Wrong)

✓ $\begin{array}{r} 22 \\ +\ 15 \\ \hline 37 \end{array}$ (Correct)

Compare

Numbers	Tens	Ones	Total
13	1 ten	3 ones	13
14	1 ten	4 ones	14

In **13**, the digit **1** is in the tens place, so it means **1** ten (**10**).

In **24**, the digit **4** is in the ones place, so it means **4** ones.

Remember

We always start adding from the **ones**, then the **tens**.

Practice Yourself Solve vertically:

1) $\begin{array}{r} 14 \\ +\ 23 \\ \hline \end{array}$ 2) $\begin{array}{r} 22 \\ +\ 36 \\ \hline \end{array}$ 3) $\begin{array}{r} 41 \\ +\ 28 \\ \hline \end{array}$ 4) $\begin{array}{r} 35 \\ +\ 54 \\ \hline \end{array}$ 5) $\begin{array}{r} 63 \\ +\ 27 \\ \hline \end{array}$

Show your steps in the space.

Check Yourself

A Choose the correct answer:

1) 24 + 35 = ...
a) 49 b) 59 c) 69

2) 47 + 22 = ...
a) 59 b) 69 c) 79

B Complete:

1) 35 + ... = 62

2) ..... + 28 = 75

C True or False:

1) 43 + 21 = 61 ( )

2) 52 + 37 = 98 ( )

D Solve:

1) Ali has 26 apples, and his friend has 31 apples. How many apples do they have together?

.....

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson (5) Practice and Apply

1 Find the addition operations that have the same results:

18 + 60	21 + 19	5 + 27	10 + 40
27 + 5	19 + 21	40 + 10	80 + 16	19 + 10

2 Complete to write the missing number:

(a) ..... + 3 = 3 + 10

(b) 0 + ... = 3 + 0

(c) 11 + ... = 30 + 11

(d) ..... + 17 = 17 + 6

(e) 37 + 60 = ... + 37

(f) 19 + 42 = 42 + ...

(g) 17 + ... = 54 + 16

(h) ..... + 18 = ... + 9

3 Find the result, then fill in the blanks:

(a)
$$\begin{array}{r} 17 \\ +\ 33 \\ \hline \cdots\cdots \end{array} \quad + \quad \begin{array}{r} 33 \\ +\ 17 \\ \hline \cdots\cdots \end{array} \quad +$$

(b)
$$\begin{array}{r} 8 \\ +\ 48 \\ \hline \cdots\cdots \end{array} \quad + \quad \begin{array}{r} 48 \\ +\ 8 \\ \hline \cdots\cdots \end{array} \quad +$$

(c)
$$\begin{array}{r} 16 \\ +\ 25 \\ \hline 41 \end{array} \quad + \quad \begin{array}{r} 25 \\ +\ 16 \\ \hline 41 \end{array} \quad +$$

(d)
$$\begin{array}{r} 13 \\ +\ 44 \\ \hline \cdots\cdots \end{array} \quad + \quad \begin{array}{r} 44 \\ +\ 13 \\ \hline \cdots\cdots \end{array} \quad +$$

(e)
$$\begin{array}{r} 65 \\ +\ 7 \\ \hline \cdots\cdots \end{array} \quad + \quad \begin{array}{r} 7 \\ +\ 65 \\ \hline \cdots\cdots \end{array} \quad +$$

(f)
$$\begin{array}{r} 12 \\ +\ 41 \\ \hline \cdots\cdots \end{array} \quad + \quad \begin{array}{r} 41 \\ +\ 12 \\ \hline \cdots\cdots \end{array} \quad +$$

4 Choose the correct answer from the given choices:

1 The sum of 15 + 9 equals 24. Which option gives the same result?

(a) 10 + 16 (b) 15 + 10 (c) 17 + 11 (d) 18 + 0

2 The sum of 17 + 56 equals 73. Which option also equals 73?

(a) 17 + 58 (b) 23 + 50 (c) 18 + 55 (d) 57 + 16

5 Find the result, then check your answer using commutative property:

(a)
$$\begin{array}{r} 24 \\ +\ 35 \\ \hline \quad\quad \end{array} \longleftrightarrow \begin{array}{r} 35 \\ +\ 24 \\ \hline \quad\quad \end{array}$$

(b)
$$\begin{array}{r} 17 \\ +\ 56 \\ \hline \quad\quad \end{array} \longleftrightarrow \begin{array}{r} 56 \\ +\ 17 \\ \hline \quad\quad \end{array}$$

Mr. Mohamed Mahmoud - 01100876775

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Lesson (5) Vertical Addition Word Problems

1 Solve the following word problems using vertical addition.

(a) Lina has 24 stickers. Her brother gives her 15 more stickers. How many stickers does Lina have now?

Answer: _____

	T	O
	...	...
+	...	...
	...	...

(b) There are 37 red apples in a box and 29 green apples in another box. How many apples are there in all?

Answer: _____

	T	O
	...	...
+	...	...
	...	...

(c) Sara read 18 pages of a storybook on Monday and 26 pages on Tuesday. How many pages did she read in all?

Answer: _____

	T	O
	...	...
+	...	...
	...	...

(d) A store sold 45 notebooks in the morning and 38 notebooks in the afternoon. How many notebooks did the store sell in all?

Answer: _____

	T	O
	...	...
+	...	...
	...	...

(e) Ali has 16 toy cars. His friend gives him 27 more toy cars for his birthday. How many toy cars does Ali have now?

Answer: _____

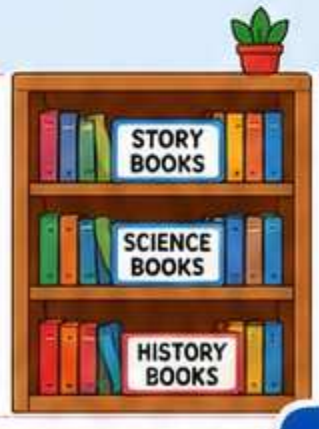
	T	O
	...	...
+	...	...
	...	...

2 Challenge: Solve the following problem.

In a library, there are 28 storybooks and 34 science books on one shelf. Later, the librarian adds 17 more history books to the same shelf. How many books are there on the shelf now?

Answer: _____

	T	O
	...	...
+	...	...
+	...	...
	...	...



D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Test Yourself

Lesson (5) – Unit (2)

1 Find the sum:

(a)
$$\begin{array}{r} 18 \\ +\ 26 \\ \hline \ldots\ldots \end{array}$$

(b)
$$\begin{array}{r} 47 \\ +\ 12 \\ \hline \ldots\ldots \end{array}$$

(c)
$$\begin{array}{r} 35 \\ +\ 34 \\ \hline \ldots\ldots \end{array}$$

(d)
$$\begin{array}{r} 28 \\ +\ 51 \\ \hline \ldots\ldots \end{array}$$

(e)
$$\begin{array}{r} 63 \\ +\ 19 \\ \hline \ldots\ldots \end{array}$$

2 Color the operations that have the same sum in each row:

7 + 12	12 + 7	10 + 9
23 + 4	4 + 23	20 + 7
15 + 3	3 + 15	17 + 1

3 Calculate using the vertical method:

(a) 24 + 17

	Tens	Ones
+		

(b) 36 + 28

	Tens	Ones
+		

(c) 45 + 19

	Tens	Ones
+		

(d) 57 + 16

	Tens	Ones
+		

4 Read and write the mathematical operation and the answer:

(a) Ali has 23 marbles. His brother gives him 18 more marbles.
How many marbles does Ali have now?

Operation: ☐ + ☐ = ☐

Answer: .....

(b) There are 32 story books on a shelf.
The librarian adds 25 more story books.
How many story books are on the shelf now?

Operation: ☐ + ☐ = ☐

Answer: .....

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Unit Assessment — Unit (2)

1 Find the sum:

(a)

	2	7	
+	5	3	
	.....	.....	

(b)

	4	3	
+	3	6	
	.....	.....	

(c)

	6	1	
+	2	8	
	.....	.....	

(d)

	3	8	
+	4	7	
	.....	.....	

(e)

	5	4	
+	1	9	
	.....	.....	

2 Match each operation with the one that has the same sum:

18 + 7 •	• 9 + 36 •	40 + 5 •
25 + 14 •	• 15 + 25 •	14 + 25 •
36 + 9 •	• 7 + 18 •	5 + 40 •

3 Calculate using the vertical method:

(a) 31 + 45

	Tens	Ones
+		

(b) 26 + 38

	Tens	Ones
+		

(c) 47 + 16

	Tens	Ones
+		

(d) 59 + 23

	Tens	Ones
+		

(e) 64 + 17

	Tens	Ones
+		

4 Choose the correct answer:

(a) 1 The sum of 22 + 18 equals 40. Which of the following has the same sum without calculating?

(a) 20 + 20 (b) 18 + 24

(c) 10 + 30 (d) 16 + 24

(b) 2 The sum of 34 + 27 equals 61. Which of the following also has the same sum?

(a) 27 + 24 (b) 31 + 30

(c) 40 + 21 (d) 35 + 20

5 Read and write the mathematical operation and the answer:

(a) Ahmed collected 24 seashells.
His brother collected 17 more seashells.
How many seashells did they collect in all?

Operation: ☐ + ☐ = ☐

Answer: .....

(b) A fruit seller had 36 oranges in the morning and 29 oranges in the afternoon.
How many oranges did he have in all?

Operation: ☐ + ☐ = ☐

Answer: .....

6 Solve the word problems:

(a) In a library, there are 25 storybooks and 28 science books on a shelf.
How many books are there in all?

Operation: ☐ + ☐ = ☐

Answer: .....

(b) 17 boys were playing in the park.
Then, 26 more boys joined them.
How many boys are in the park now?

Operation: ☐ + ☐ = ☐

Answer: .....

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

موقع الدكتور محمد رزق التعليمي

امسح الباركود بالموبيل لتثبيت التطبيق وتحميل كل الملازم مجانا وبسرعه

MR

حمل التطبيق الأن

GET IT ON Google Play

ملازم ابتدائي | ملازم اعدادي | ملازم ثانـــوي | كورسات ونتائج امتحانات

موقع الدكتور محمد رزق
Dr.MoRizK